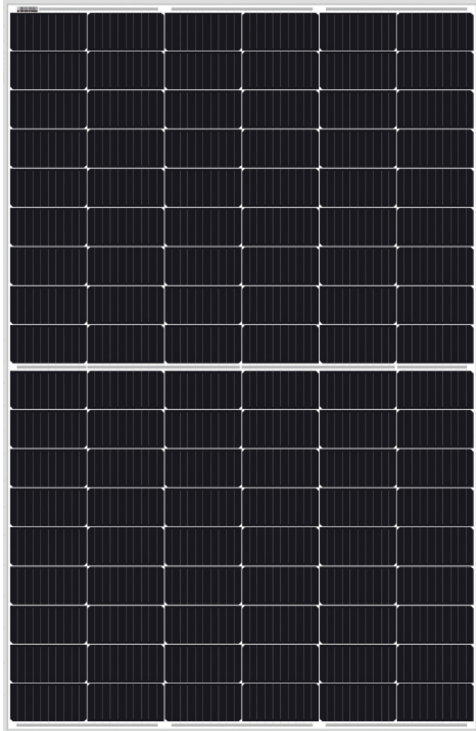


## PRODUCT



# SOLARWATT Panel

## classic AM 2.5 (30 mm) pure

### Glass-Foil-Module

#### Best price-performance ratio

With the classic models, Solarwatt offers affordable, robust, high-performance solar modules of proven quality. They are durable and high-yielding as well as resistant to weather effects and environmental influences.

The classic-modules are produced on state-of-the-art production lines and meet the high Solarwatt quality standards. They will therefore generate solar power well beyond their warranty period.

The modules come with a solid 20-year product guarantee.



## PRODUCT QUALITY

- ammonia resistant
- salt mist resistant
- LeTID tested
- PID protected
- 100% plus-sorting

## SERVICE

**Full Coverage insurance**  
optional (up to 1,000 kWp\*)

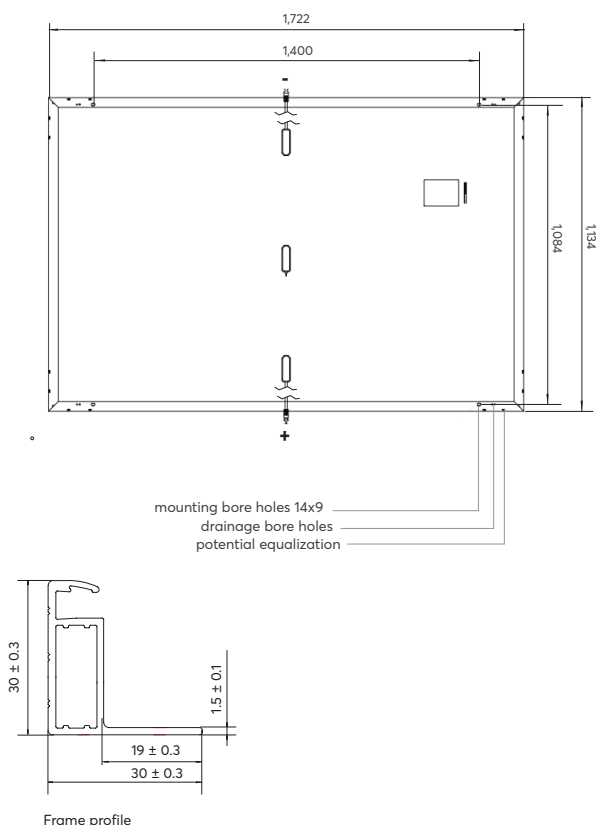
**simple returns policy**  
as per „Delivery terms for Solarwatt solar modules“

**20 year product warranty**  
as per „Warranty conditions for Solarwatt solar modules“

**25 year performance warranty**  
on 89.4 % of nominal power as per „Warranty conditions for Solarwatt solar modules“

\* country-specific deviations apply

## DIMENSIONS



## GENERAL DATA

Module technology	Glass-foil laminate; aluminum frame
Covering material	Tempered solar glass with anti-reflective finish
Encapsulation	Solar cells in POE encapsulation
Backing material	Multi-layer composite film, white
Solar cells	108 monocrystalline high power TOPCon solar cells
Cell dimensions	182 x 91 mm
L x W x H / Weight	1,722 <sup>±2</sup> x 1,134 <sup>±2</sup> x 30 <sup>±0.3</sup> mm / 20.5 kg
Connection technology	Cables 2x 1.2 m / 4 mm <sup>2</sup> , Stäubli Electrical MC4 connectors
Bypass diodes	3
Max. system voltage	1,000 V
IP rating	IP68
Protection class	II (acc. to IEC 61140)
Fire class	C (acc. to IEC 61730)
Certified mechanical ratings as per IEC 61215	Pressure load up to 3,600 Pa (test load 5,400 Pa) Suction load up to 1,600 Pa (test load 2,400 Pa)
Recommended stress load as per Installation Instructions	Please refer to the specifications in the Installation Instructions and Warranty Conditions.
Qualifications	IEC 61215 (incl. LeTID)   IEC 61730 in preparation: PID IEC TS 62804 IEC 61701   IEC 62716   MCS 005

## ELECTRICAL DATA (STC)

STC (Standard Test Conditions): Irradiation intensity 1,000 W/m<sup>2</sup>, spectral distribution AM 1.5 | Temperature 25 ± 2 °C, in accordance to EN 60904-3

Please check the performance class availability!

Nominal power P <sub>max</sub>	425 Wp	430 Wp	435 Wp
Nominal voltage V <sub>mp</sub>	32.2 V	32.4 V	32.6 V
Nominal current I <sub>mp</sub>	13.2 A	13.3 A	13.4 A
Open circuit voltage V <sub>oc</sub>	38.6 V	38.8 V	39.0 V
Short circuit current I <sub>sc</sub>	13.8 A	13.9 A	13.9 A
Module efficiency	21.8 %	22.0 %	22.2 %

Measurement tolerances: P<sub>max</sub> ± 5 %; V<sub>oc</sub> ± 3 %; I<sub>sc</sub> ± 3 %, I<sub>mp</sub> ± 10 %

Reverse-current power rating I<sub>R</sub>: 25 A, operating modules with an external power source is only permissible if using a phase fuse with a tripping current of ≤ 25 A.

## ELECTRICAL DATA (NMOT AND WEAK LIGHT)

NMOT (Nominal Module Operating Temperature): Irradiation intensity 800 W/m<sup>2</sup>, spectral distribution AM 1.5, Temperature 20 °C  
Weak light conditions: Irradiation intensity 200 W/m<sup>2</sup>, Temperature 25 °C, Wind speed 1 m/s, load operation

Nominal power P <sub>max @NMOT</sub>	320 W	323 W	326 W
Nominal power P <sub>max @200 W/m<sup>2</sup></sub>	83.5 W	84.7 W	85.7 W

Measurement tolerances: P<sub>max</sub> ± 5 %; V<sub>oc</sub> ± 3 %; I<sub>sc</sub> ± 3 %, I<sub>mp</sub> ± 10 %

Reduction of module efficiency when irradiance is reduced from 1,000 W/m<sup>2</sup> to 200 W/m<sup>2</sup> (at 25 °C): 4 ± 2 % (relative) / -0.6 ± 0.3 % (absolute).

## THERMAL FEATURES

Operating temperature range	-40 ... +85 °C
Ambient temperature range	-40 ... +45 °C
Temperature coefficient P <sub>max</sub>	-0.31%/K
Temperature coefficient V <sub>oc</sub>	-0.25%/K
Temperature coefficient I <sub>sc</sub>	0.06%/K
NMOT	45 °C

## TRANSPORT AND PACKAGING

Modules per pallet	36
Modules per container	936
Pallets per truck	14 / 28
Modules per truck	504 / 1,008
Gross weight per pallet	791 kg
Gross weight per stacked pallet (max. 2)	1.582 kg
Pallet dimensions (packing size)	1,770 x 1,140 x 1,250 mm